AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application. Where claims have been amended and/or canceled, such amendments and/or cancellations are done without prejudice and/or waiver and/or disclaimer to the claimed and/or disclosed subject matter, and Applicants reserve the right to claim this subject matter and/or other disclosed subject matter in a continuing application or otherwise.

Claims 1-6. (canceled)

7. (currently amended) A method for direct data placement of data for an application that uses a network protocol, the method comprising:

detecting an application packet header using a packet classifier within a network adapter, the application packet header belonging to a packet in a data stream associated with the application;

identifying offsets included within the application header;

loading a plurality of registers with the identified offsets;

initiating direct data placement of data associated with the application packet header when a result of masking a set of values corresponding to a direct data placement pattern with contents of the loaded registers matches ~~one of~~ at least one direct data placement pattern, a plurality of direct data placement patterns being available for masking with the contents of the loaded registers, each direct data placement pattern being associated with an application packet header, and wherein initiating direct data placement comprises:

masking each of the plurality direct data placement patterns with contents of the loaded registers;

extracting information corresponding to the detected application header; and

mapping a payload of the detected application header to a memory based on the direct data placement pattern, the memory being a predetermined region of memory reserved for the application.

Claims 8-24. (canceled)